EAST SEARCH

7/12/2007

L#	Hits	Search String	Databases
S1	84	(graphical near2 model) with component	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S2	121	(graphical near2 model) with (component or part)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S3	3335	(graphical near2 (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S4	3410	S2 or S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S5	615	S4 and ((identify$3 or identification) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S6	369	S4 and ((convert$3 or conversion) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S7	102	S5 and S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S8	369	S6 or S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S9	104	S8 and ((identify$3 or identification) with (component or part or similarit$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S10	4	S8 and (similarit$3 with (component or part or characteristic))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S17	5	S8 and (select$3 near2 pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S18	0	S8 and (select$3 with checksum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S11	55	S8 and ((convert$3 or conversion) with automatic$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S19	6	S8 and checksum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S23	1	S8 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S12	310	S8 and ((component or part) with (system or subsystem))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S27	0	S24 and (checksum with partition$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S29	265	S8 and (user with (interface or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S35	1	S8 and ((convert$3 or conversion) with automatic$4 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S38	44	S8 and ((input or output) with propert$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S52	6	S8 and (reference with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S13	0	S8 and ((component or part) with (reusable near2 pattern))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S54	12	S8 and (replac$3 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S55	1	S8 and (replac$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S58	9	S8 and (model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S60	8	S8 and (pattern with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S14	0	S8 and (reusable near2 pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S15	30	S8 and reusable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S16	155	S8 and pattern	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S67	185	S62 and (S29 or S30)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S68	264	S62 or S63 or S64 or S65 or S66 or S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S20	217	S8 and (select$3 with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S21	171	S8 and (type with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S22	19	S8 and (type with (component or part) with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S24	882	S5 or S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S25	5	S24 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S26	0	S8 and (checksum with partition$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S28	0	S8 and (reusable near2 feature)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S30	222	S8 and (user with (input or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S31	18	S8 and (pattern with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S32	6	S8 and reusability	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

S33	7	S8 and polymorphism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S34	7	S8 and ((convert$3 or conversion) with (component or part) with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S36	4	S8 and ((copy$3 or creat$3) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S37	83	S8 and ((input or output) near2 port)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S39	0	S8 and (copy$3 with configuration with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S40	6	S8 and (copy$3 with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S41	5	S8 and (copy$3 with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S42	1	S8 and (peripheral with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S48	3	S8 and (copy$3 with (component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S43	1	S8 and (peripheral with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S44	1	S8 and (reference with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S45	5	S8 and ((component or part) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S46	0	S8 and ((component or part) with collaps$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S47	0	S8 and (graphical with collaps$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S49	8	S8 and (copy$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S50	34	S8 and ((component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S51	0	S8 and (reference with subsystem with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S53	0	S8 and (replac$3 with reference with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S56	25	S8 and (reference with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S57	2	S8 and ((component or part) with model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S59	5	S8 and (pattern with repeat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S61	30	S8 and (new near2 model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S62	264	S9 or S10 or S11 or S15 or S17 or S19 or S22 or S23 or S25 or S31 or S32 or S33 or S34 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S63	226	S62 and S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S64	133	S62 and S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S65	157	S62 and S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S66	139	S62 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S87	1	S75 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S88	882	S72 or S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S89	5	S88 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S102	1	S75 and (peripheral with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S103	1	S75 and (peripheral with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S104	1	S75 and (reference with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S93	6	S75 and reusability	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S94	7	S75 and polymorphism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S95	7	S75 and ((convert$3 or conversion) with (component or part) with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S121	157	S118 and S84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S122	139	S118 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S123	185	S118 and (S90 or S91)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S117	30	S75 and (new near2 model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S120	133	S118 and S81	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S105	5	S75 and ((component or part) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S106	3	S75 and (copy$3 with (component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S107	8	S75 and (copy$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S108	34	S75 and ((component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S109	6	S75 and (reference with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S115	5	S75 and (pattern with repeat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S110	12	S75 and (replac$3 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

S116	8	S75 and (pattern with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S111	1	S75 and (replac$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S112	25	S75 and (reference with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S114	9	S75 and (model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S113	2	S75 and ((component or part) with model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S96	1	S75 and ((convert$3 or conversion) with automatic$4 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S97	4	S75 and ((copy$3 or creat$3) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S98	83	S75 and ((input or output) near2 port)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S99	44	S75 and ((input or output) with propert$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S100	6	S75 and (copy$3 with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S101	5	S75 and (copy$3 with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S118	264	S76 or S77 or S78 or S80 or S82 or S83 or S86 or S87 or S89 or S92 or S93 or S94 or S95 c	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S119	226	S118 and S79	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S75	369	S73 or S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S76	104	S75 and ((identify$3 or identification) with (component or part or similarit$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S77	4	S75 and (similarit$3 with (component or part or characteristic))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S78	55	S75 and ((convert$3 or conversion) with automatic$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S90	265	S75 and (user with (interface or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S91	222	S75 and (user with (input or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S92	18	S75 and (pattern with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S82	5	S75 and (select$3 near2 pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S83	6	S75 and checksum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S84	217	S75 and (select$3 with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S85	171	S75 and (type with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S86	19	S75 and (type with (component or part) with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S69	121	(graphical near2 model) with (component or part)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S71	3414	S69 or S70	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S72	615	S71 and ((identify$3 or identification) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S73	369	S71 and ((convert$3 or conversion) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S74	102	S72 and S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S124	264	S118 or S119 or S120 or S121 or S122 or S123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S70	3339	(graphical near2 (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S79	310	S75 and ((component or part) with (system or subsystem))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S80	30	S75 and reusable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S81	155	S75 and pattern	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S127	17	S124 and S126	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S125	4	S124 and S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S126	17	S75 and (reusable with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S128	5	S124 and S82	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S164	1	S135 and (reference with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S158	83	S135 and ((input or output) near2 port)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S149	5	S148 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S176	8	S135 and (pattern with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S179	226	S178 and S139	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S185	1	S184 and S147	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S186	7	S184 and S155	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S156	1	S135 and ((convert$3 or conversion) with automatic$4 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S187	15	S184 and (S160 or S161 or S162 or S163 or S164 or S165)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

S188	6	S184 and S160	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S189	5	S184 and S161	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S190	2	S184 and (S162 or S163)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S191	6	S184 and (S169)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S192	12	S184 and (S170 or S171)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S171	1	S135 and (replac$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S193	1	S184 and (S171)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S194	25	S184 and (S172)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S195	5	S184 and (S175)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S170	12	S135 and (replac$3 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S167	8	S135 and (copy$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S196	8	S184 and (S176)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S172	25	S135 and (reference with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S178	264	S136 or S137 or S138 or S140 or S142 or S143 or S146 or S147 or S149 or S152 or S153 o	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S173	2	S135 and ((component or part) with model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S174	9	S135 and (model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S175	5	S135 and (pattern with repeat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S168	34	S135 and ((component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S169	6	S135 and (reference with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S165	5	S135 and ((component or part) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S166	3	S135 and (copy$3 with (component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S163	1	S135 and (peripheral with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S162	1	S135 and (peripheral with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S161	5	S135 and (copy$3 with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S160	6	S135 and (copy$3 with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S154	7	S135 and polymorphism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S159	44	S135 and ((input or output) with propert$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S151	222	S135 and (user with (input or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S153	6	S135 and reusability	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S152	18	S135 and (pattern with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S157	4	S135 and ((copy$3 or creat$3) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S155	7	S135 and ((convert$3 or conversion) with (component or part) with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S138	55	S135 and ((convert$3 or conversion) with automatic$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S147	1	S135 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S146	19	S135 and (type with (component or part) with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S145	171	S135 and (type with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S142	5	S135 and (select$3 near2 pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S141	155	S135 and pattern	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S140	30	S135 and reusable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S139	310	S135 and ((component or part) with (system or subsystem))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S150	265	S135 and (user with (interface or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S135	369	S133 or S134	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S137	4	S135 and (similarit$3 with (component or part or characteristic))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S136	104	S135 and ((identify$3 or identification) with (component or part or similarit$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S148	882	S132 or S133	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S144	217	S135 and (select$3 with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S143	6	S135 and checksum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S134	102	S132 and S133	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

S132	615	S131 and ((identify$3 or identification) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S133	369	S131 and ((convert$3 or conversion) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S131	3414	S129 or S130	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S130	3339	(graphical near2 (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S129	121	(graphical near2 model) with (component or part)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S180	133	S178 and S141	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S177	30	S135 and (new near2 model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S181	157	S178 and S144	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S182	139	S178 and S145	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S183	185	S178 and (S150 or S151)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S184	264	S178 or S179 or S180 or S181 or S182 or S183	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L1	137	(graphical near2 model) with (component or part)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L2	3609	(graphical near2 (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L3	3695	L1 or L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L4	665	L3 and ((identify$3 or identification) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L5	385	L3 and ((convert$3 or conversion) with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L6	104	L4 and L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L7	385	L5 or L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L8	106	L7 and ((identify$3 or identification) with (component or part or similarit$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L9	4	L7 and (similarit$3 with (component or part or characteristic))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L10	57	L7 and ((convert$3 or conversion) with automatic$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L11	326	L7 and ((component or part) with (system or subsystem))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L12	30	L7 and reusable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L13	161	L7 and pattern	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L14	5	L7 and (select$3 near2 pattern)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L15	6	L7 and checksum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L16	221	L7 and (select$3 with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L17	175	L7 and (type with (component or part))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L18	19	L7 and (type with (component or part) with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L19	1	L7 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L20	946	L4 or L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L21	5	L20 and (acyclic near2 graph)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L22	274	L7 and (user with (interface or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L23	230	L7 and (user with (input or interaction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L24	18	L7 and (pattern with match$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L25	6	L7 and reusability	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L26	7	L7 and polymorphism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L27	7	L7 and ((convert$3 or conversion) with (component or part) with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L28	1	L7 and ((convert$3 or conversion) with automatic$4 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L29	5	L7 and ((copy$3 or creat$3) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L30	87	L7 and ((input or output) near2 port)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L31	45	L7 and ((input or output) with propert$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L32	6	L7 and (copy$3 with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L33	5	L7 and (copy$3 with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L34	1	L7 and (peripheral with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L35	1	L7 and (peripheral with configuration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L36	1	L7 and (reference with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

L37	5	L7 and ((component or part) with (new near2 model))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L38	3	L7 and (copy$3 with (component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L39	8	L7 and (copy$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L40	35	L7 and ((component or subsystem) with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L41	6	L7 and (reference with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L42	12	L7 and (replac$3 with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L43	1	L7 and (replac$3 with library)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L44	26	L7 and (reference with model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L45	2	L7 and ((component or part) with model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L46	9	L7 and (model with (simplify$3 or simplification))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L47	5	L7 and (pattern with repeat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L48	8	L7 and (pattern with reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L49	31	L7 and (new near2 model)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L50	273	L8 or L9 or L10 or L12 or L14 or L15 or L18 or L19 or L21 or L24 or L25 or L26 or L27 or L28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L51	235	L50 and L11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L52	138	L50 and L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L53	158	L50 and L16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L54	142	L50 and L17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L55	189	L50 and (L22 or L23)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
L56	273	L50 or L51 or L52 or L53 or L54 or L55	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

10/715239 **Arwen Warlock**

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US 20020191867 A1	Image data displaying system and method	20021219	382/300
US 20020186248 A1	Method and apparatus for pattern based generation of graphical user interfaces (GUI)	20021212	715/780
US 20020158765 A1	Method and system for livestock data collection and management	20021031	340/573.3
US 20020145613 A1	Graphics display system with color look-up table loading mechanism	20021010	345/603

US 20020138582 A1	Methods and apparatus providing electronic messages that are linked and aggregated	20020926	709/206
US 20020129126 A1	Method and system for effecting migration of application among heterogeneous devices	20020912	709/220
US 20020129001 A1	Method and system for assimilation, integration and deployment of architectural, engineering	20020912	707/1
US 20020105534 A1	Universal media bar for controlling different types of media	20020808	715/716
US 20020105504 A1	Soft input panel system and method	20020808	345/173
US 20020104293 A1	Packaging system	20020808	53/472
US 20020083025 A1	Contextual responses based on automated learning techniques	20020627	706/12
US 20020080174 A1	System and method for configuring an instrument to perform measurement functions utilizing	20020627	715/762
US 20020054174 A1	Thematic response to a computer user's context, such as by a wearable personal computer	20020509	715/863
US 20020050978 A1	Force feedback applications based on cursor engagement with graphical targets	20020502	345/156
US 20020039101 A1	Binary cache file format for themeing the visual appearance of a computer system	20020404	345/581
US 20020035450 A1	Network-based system for the manufacture of parts with a virtual collaborative environment fc	20020321	703/1
US 20020007618 A1	Cushioning conversion system and method	20020124	53/472
US 20010043232 A1	Thematic response to a computer user's context, such as by a wearable personal computer	20011122	715/700
US 20010043231 A1	Thematic response to a computer user's context, such as by a wearable personal computer	20011122	715/700
US 20010040591 A1	Thematic response to a computer user's context, such as by a wearable personal computer	20011115	715/700
US 20010040590 A1	Thematic response to a computer user's context, such as by a wearable personal computer	20011115	715/700
US 20010039572 A1	Data stream adaptation server	20011108	709/219
US 20010017023 A1	CUSHIONING CONVERSION SYSTEM AND METHOD	20010830	53/472
US 7184058 B2	Graphics display system with anti-aliased text and graphics feature	20070227	345/600
US 7174286 B2	Systems and methods for defining a simulated interactive web page	20070206	703/22
US 7169996 B2	Systems and methods for generating music using data/music data file transmitted/received vi	20070130	84/609
US 7159185 B1	Function objects	20070102	715/763
US 7137069 B2	Thematic response to a computer user's context, such as by a wearable personal computer	20061114	715/744
US 7137066 B2	Binary cache file format for themeing the visual appearance of a computer system	20061114	715/522
US 7131073 B2	Force feedback applications based on cursor engagement with graphical targets	20061031	715/856
US 7130885 B2	Methods and apparatus providing electronic messages that are linked and aggregated	20061031	709/206
US 7113900 B1	System and method for logical modeling of distributed computer systems	20060926	703/13
US 7110006 B2	Video, audio and graphics decode, composite and display system	20060919	345/629
US 7107539 B2	Thematic response to a computer user's context, such as by a wearable personal computer	20060912	715/744
US 7103434 B2	PLM-supportive CAD-CAM tool for interoperative electrical and mechanical design for hardwa	20060905	700/98
US 7098930 B2	Graphics display system with anti-flutter filtering and vertical scaling feature	20060829	345/629
US 7080322 B2	Thematic response to a computer user's context, such as by a wearable personal computer	20060718	715/744
US 7080159 B2	Method and system for effecting migration of application among heterogeneous devices	20060718	709/246
US 7076737 B2	Thematic response to a computer user's context, such as by a wearable personal computer	20060711	715/744
US 7076713 B1	Test generator for converting a model of computer component object behavior and stimulus v	20060711	714/741
US 7072810 B2	Method and apparatus for pattern based generation of graphical user interfaces (GUI)	20060704	703/2
US 7071944 B2	Video and graphics system with parallel processing of graphics windows	20060704	345/505
US 7068384 B1	Method and system for transmitting a facsimile from a computer to a remote fax machine usir	20060627	358/1.15
US 7057622 B2	Graphics display system with line buffer control scheme	20060606	345/560
US 7055101 B2	Thematic response to a computer user's context, such as by a wearable personal computer	20060530	715/744
US 7034835 B2	System and method of converting frame-based animations into interpolator-based animations	20060425	345/473
US 7015928 B2	Graphics display system with color look-up table loading mechanism	20060321	345/601
US 7002602 B2	Apparatus and method for blending graphics and video surfaces	20060221	345/629
US 6995675 B2	Method and system for agricultural data collection and management	20060207	340/573.3
US 6990497 B2	Dynamic streaming media management	20060124	707/101
US 6988098 B2	Grid data processing systems and methods	20060117	707/3
US 6984045 B2	System and method for displaying projector system identification information	20060110	353/122

US 6975914 B2	Methods and apparatus for process, factory-floor, environmental, computer aided manufactur	20051213	700/96
US 6975324 B1	Video and graphics system with a video transport processor	20051213	345/555
US 6969821 B2	Airfoil qualification system and method	20051129	219/121.83
US 6957191 B1	Automated financial scenario modeling and analysis tool having an intelligent graphical user i	20051018	705/38
US 6938041 B1	Java-based data access object	20050830	707/10
US 6928396 B2	Network-based system for the manufacture of parts with a virtual collaborative environment fc	20050809	703/1
US 6927783 B1	Graphics display system with anti-aliased text and graphics feature	20050809	345/629
US 6902481 B2	Decoupling of the graphical presentation of a game from the presentation logic	20050607	463/30
US 6889227 B1	Database access bridge system and process	20050503	707/102
US 6879330 B2	Graphics display system with anti-flutter filtering and vertical scaling feature	20050412	345/629
US 6877297 B2	Cushioning conversion system and method	20050412	53/502
US 6870538 B2	Video and graphics system with parallel processing of graphics windows	20050322	345/505
US 6853385 B1	Video, audio and graphics decode, composite and display system	20050208	345/629
US 6842877 B2	Contextual responses based on automated learning techniques	20050111	715/708
US 6819330 B2	Graphics display System with color look-up table loading mechanism	20041116	345/601
US 6819315 B2	Soft input panel system and method	20041116	345/173
US 6798420 B1	Video and graphics system with a single-port RAM	20040928	345/554
US 6784903 B2	System and method for configuring an instrument to perform measurement functions utilizing	20040831	715/771
US 6783252 B1	System and method for displaying projector system identification information	20040831	353/122
US 6768774 B1	Video and graphics system with video scaling	20040727	375/240.15
US 6762762 B2	Graphics accelerator	20040713	345/503
US 6744472 B1	Graphics display system with video synchronization feature	20040601	348/441
US 6738072 B1	Graphics display system with anti-flutter filtering and vertical scaling feature	20040518	345/629
US 6731295 B1	Graphics display system with window descriptors	20040504	345/581
US 6721837 B2	Graphics display system with unified memory architecture	20040413	710/244
US 6700588 B1	Apparatus and method for blending graphics and video surfaces	20040302	345/629
US 6664897 B2	Method and system for livestock data collection and management	20031216	340/573.3
US 6661427 B1	Graphics display system with video scaler	20031209	345/660
US 6661422 B1	Video and graphics system with MPEG specific data transfer commands	20031209	345/530
US 6650795 B1	Color image capturing system with antialiazing	20031118	382/312
US 6642650 B1	Refusable personal monitoring device	20031104	313/502
US 6636222 B1	Video and graphics system with an MPEG video decoder for concurrent multi-row decoding	20031021	345/505
US 6630945 B1	Graphics display system with graphics window control mechanism	20031007	715/768
US 6608638 B1	System and method for configuring a programmable hardware instrument to perform measur	20030819	715/771
US 6608630 B1	Graphics display system with line buffer control scheme	20030819	345/634
US 6590674 B1	Method and apparatus for creating and maintaining graphic representations of documents un	20030708	358/1.18
US 6584601 B1	System and method for converting graphical programs into hardware implementations which	20030624	716/4
US 6573905 B1	Video and graphics system with parallel processing of graphics windows	20030603	345/629
US 6570579 B1	Graphics display system	20030527	345/629
US 6542937 B1	Apparatus and method for transferring and editing sheet metal part data	20030401	719/328
US 6538656 B1	Video and graphics system with a data transport processor	20030325	345/519
US 6533723 B1	Multiple-link cable management apparatus	20030318	600/300
US 6529935 B1	Graphics display system with unified memory architecture	20030304	718/102
US 6526566 B1	Graphical programming system and method including nodes for programmatically accessing	20030225	717/109
US 6522993 B1	Method and system for marking surface deviations on a three dimensional surface	20030218	702/150
US 6513009 B1	Scalable low resource dialog manager	20030128	704/270
US 6510550 B1	Method and apparatus for providing intermittent connectivity support in a computer applicatio	20030121	717/108
US 6501480 B1	Graphics accelerator	20021231	345/538

US 6487713 B1	Software development system that presents a logical view of project components, facilitates t	20021126	717/105
US 6424959 B1	Method and apparatus for automatic synthesis, placement and routing of complex structures	20020723	706/13
US 6380945 B1	Graphics display system with color look-up table loading mechanism	20020430	345/602
US 6370569 B1	Data socket system and method for accessing data sources using URLs	20020409	709/217
US 6363525 B1	Method and apparatus for routing confidential information	20020326	725/34
US 6334847 B1	Enhanced image processing for a three-dimensional imaging system	20020101	600/443
US 6331864 B1	Real-time multimedia visual programming system	20011218	715/763
US 6317116 B1	Graphical click surfaces for force feedback applications to provide selection of functions usin	20011113	715/701
US 6314093 B1	Traffic route finder in communications network	20011106	370/351
US 6310883 B1	Traffic route finder in communications network	20011030	370/408
US 6310622 B1	Automatic graphical pattern placement and adjustment	20011030	345/441
US 6297820 B1	Method and system for designing a graphical user interface for an electronic consumer produ	20011002	715/763
US 6295513 B1	Network-based system for the manufacture of parts with a virtual collaborative environment fc	20010925	703/1
US 6271528 B1	Reusable personal sun-monitor	20010807	250/484.5
US 6262812 B1	Method and apparatus for object-oriented adjustment of color attributes in a perceptually unif	20010717	358/1.9
US 6219586 B1	Apparatus and method for managing and distributing design and manufacturing information tl	20010417	700/182
US 6215488 B1	Method and system for designing a graphical user interface for an electronic consumer produ	20010410	715/762
US 6208955 B1	Distributed maintenance system based on causal networks	20010327	703/20
US 6208345 B1	Visual data integration system and method	20010327	715/853
US 6198509 B1	Method and apparatus for providing and receiving broadcaster information	20010306	348/467
US 6189064 B1	Graphics display system with unified memory architecture	20010213	710/244
US 6185476 B1	Apparatus and method for managing and distributing design and manufacturing information tl	20010206	700/182
US 6182278 B1	Program development support system and support method and storage medium for storing p	20010130	717/107
US 6175948 B1	Method and apparatus for a waveform compiler	20010116	716/7
US 6125207 A	Encoded facsimile communication with a selective system and method therefor	20000926	382/190
US 6078308 A	Graphical click surfaces for force feedback applications to provide user selection using cursoı	20000620	715/856
US 6049729 A	Dose masking feature for BNCT radiotherapy planning	20000411	600/407
US 6037939 A	Method for enabling interactive manipulation of data retained in computer system, and a com	20000314	715/798
US 5999704 A	Image output apparatus	19991207	358/2.1
US 5990900 A	Two-dimensional to three-dimensional image converting system	19991123	345/427
US 5969715 A	Compact graphical interactive information system	19991019	725/110
US 5908142 A	Beer tap display system with customizable programming and multi-media output means	19990601	222/25
US 5854902 A	Video data capture and formatting in intelligent video information management system	19981229	709/247
US 5848352 A	Compact graphical interactive information system	19981208	725/110
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US 5634002 A	Method and system for testing graphical user interface programs	19970527	714/38
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US 5535325 A	Method and apparatus for automatically generating database definitions of indirect facts from	19960709	707/102
US 5508607 A	Electronic test instrument for component test	19960416	324/121R
US 5491796 A	Apparatus for remotely managing diverse information network resources	19960213	709/224
US 5488648 A	Behavior monitoring and analyzing system for stored program controlled switching system	19960130	379/13
US 5321610 A	Integrated product for implementing application software and process of developing integrate	19940614	705/9

US 5309556 A	Method for using interactive computer graphics to control electronic instruments	19940503	715/771
US 4644268 A	Apparatus and method for determining the magnitude and phase of the fundamental compon	19870217	324/76.77
US 20010017023 A	Conversion system for stock material into low density cushioning packaging - has packaging :	20010830	
JP 09284534 A	Image output control apparatus e.g. for printer - has graphical area extraction part for extractii	19971031	
JP 07287765 A	Graph generation device using electronic computer - includes omission section judgement pa	19951031	

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L#	Hits	Search String	Databases
L57	80	(graphical near2 model) with (component or part)	US-PGPUB
L58	1890	(graphical near2 (component or part))	US-PGPUB
L59	1942	57 or 58	US-PGPUB
L60	196	59 and ((convert$3 or conversion) with (component or part))	US-PGPUB
L62	0	60 and (similarit$3 with (component or part or characteristic))	US-PGPUB
L63	2	60 and ((identify$3 or identification) with similarit$3)	US-PGPUB
L64	84	60 and pattern	US-PGPUB
L65	12	60 and reusable	US-PGPUB
L66	4	60 and checksum	US-PGPUB
L67	0	60 and (acyclic near2 graph)	US-PGPUB
L68	151	60 and (user with (interface or interaction))	US-PGPUB
L69	0	60 and (pattern with similarit$3)	US-PGPUB
L70	3	60 and reusability	US-PGPUB
L71	5	60 and polymorphism	US-PGPUB
L72	2	60 and ((convert$3 or conversion) with (component or part) with reference)	US-PGPUB
L73	0	60 and ((convert$3 or conversion) with automatic$4 with reference)	US-PGPUB
L74	1	60 and (reference with (new near2 model))	US-PGPUB
L75	2	60 and (reference with library)	US-PGPUB
L76	4	60 and (replac$3 with reference)	US-PGPUB
L77	5	60 and (pattern with reference)	US-PGPUB
L78	30	63 or 65 or 66 or 70 or 71 or 72 or 74 or 75 or 76 or 77	US-PGPUB
L79	25	60 and (reference.CLM.)	US-PGPUB
L80	0	60 and (similarity.CLM.)	US-PGPUB
L81	0	60 and (similarities.CLM.)	US-PGPUB
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L83	4	78 and 79	US-PGPUB
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Document Kind Codes	Title	Issue Date	Current OR	Abstract

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US 20060215651 A1	System and method providing fixed rate transmission for digital visual interface and high-defi	20060928	370/389
US 20050203876 A1	Heterogeneous multi-level extendable indexing for general purpose annotation systems	20050915	707/3
US 20050182709 A1	Automated financial scenario modeling and analysis tool having an intelligent graphical user i	20050818	705/38
US 20050080502 A1	PLM-supportive CAD-CAM tool for interoperative electrical & mechanical design for hardware	20050414	700/97
US 20040262277 A1	Airfoil qualification system and method	20041230	219/121.85
US 20040249258 A1	System and method for extracting physiological data using ultra-wideband radar and improve	20041209	600/407
US 20040249257 A1	Article of manufacture for extracting physiological data using ultra-wideband radar and impro	20041209	600/407
US 20040221260 A1	Systems and methods for defining a simulated interactive web page	20041104	717/104
US 20040187606 A1	Torque sensing apparatus for picking up a magnetic flux	20040930	73/862.333
US 20040088199 A1	Method of forming a business rule	20040506	705/4
US 20040088198 A1	Method of modifying a business rule while tracking the modifications	20040506	705/4
US 20040088197 A1	Method of generating a graphical display of a business rule with a translation	20040506	705/4
US 20040088196 A1	Graphical display of business rules	20040506	705/4
US 20040088195 A1	Method of modifying a business rule	20040506	705/4
US 20040085357 A1	Method of generating a graphical display of a business rule and associated business rule ele	20040506	715/762
US 20040056908 A1	Method and system for dataflow creation and execution	20040325	717/115
US 20040002950 A1	Methods and apparatus for process, factory-floor, environmental, computer aided manufactur	20040101	707/1
US 20030159129 A1	Component model for real time system control	20030821	717/116
US 20030037119 A1	GRAPHICAL PROGRAMMING SYSTEM AND METHOD INCLUDING NODES FOR PROGR/	20030220	709/217
US 20030009452 A1	Dynamic streaming media management	20030109	707/3
US 20020191867 A1	Image data displaying system and method	20021219	382/300
US 20020138582 A1	Methods and apparatus providing electronic messages that are linked and aggregated	20020926	709/206
US 20020129126 A1	Method and system for effecting migration of application among heterogeneous devices	20020912	709/220
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1 Education: Environments for creativity: a lab for making things

Ellen Yi-Luen Do, Mark D. Gross
June 2007 **Proceedings of the 6th ACM SIGCHI conference on Creativity & cognition C&C '07**
Publisher: ACM Press
Full text available: pdf(2.28 MB) Additional Information: full citation, abstract, references, index terms

We have, with our students, engaged in cross-disciplinary research in design. We describe parameters and principles that we have found helpful in organizing and conducting this kind of work. A variety of projects that have been developed in our group illustrate these parameters and principles. Our group focuses on making and we have come to see creativity as grounded in the ability to make things.

Keywords: design studio, objects to think with, play instinct, rapid prototyping

2 Teaching graphics using Ada

C. Wayne Brown
November 2004 **ACM SIGAda Ada Letters , Proceedings of the 2004 annual ACM SIGAda international conference on Ada: The engineering of correct and reliable software for real-time & distributed systems using Ada and related technologies SIGAda '04**, Volume XXIV Issue 4
Publisher: ACM Press
Full text available: pdf(177.42 KB) Additional Information: full citation, abstract, references, index terms, review

This paper describes several tools related to the Ada language that were developed to support the teaching of a computer graphics course. These tools include an updated and improved OpenGL Ada specification file, a VRML-to-code conversion tool, and an Ada-to-C conversion tool. The rational for the development of these tools and some issues related to their implementation are discussed.

Keywords: Ada, C, VRML, code conversion, computer graphics, cross compiling

3 [Real-time volume graphics](#)
Klaus Engel, Markus Hadwiger, Joe M. Kniss, Aaron E. Lefohn, Christof Rezk Salama, Daniel Weiskopf
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(7.63 MB) Additional Information: full citation, abstract

The tremendous evolution of programmable graphics hardware has made high-quality real-time volume graphics a reality. In addition to the traditional application of rendering volume data in scientific visualization, the interest in applying these techniques for real-time rendering of atmospheric phenomena and participating media such as fire, smoke, and clouds is growing rapidly. This course covers both applications in scientific visualization, e.g., medical volume data, and real-time rendering, ...

4 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(63.03 MB) Additional Information: full citation, abstract, citings

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

5 Advances in dataflow programming languages
Wesley M. Johnston, J. R. Paul Hanna, Richard J. Millar
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1
Publisher: ACM Press
Full text available: pdf(835.52 KB) Additional Information: full citation, abstract, references, citings, index terms

Many developments have taken place within dataflow programming languages in the past decade. In particular, there has been a great deal of activity and advancement in the field of dataflow visual programming languages. The motivation for this article is to review the content of these recent developments and how they came about. It is supported by an initial review of dataflow programming in the 1970s and 1980s that led to current topics of research. It then discusses how dataflow programming evo ...

Keywords: Dataflow, co-ordination languages, component software, data flow visual programming, graphical programming, multithreading, software engineering

6 Java resources for computer science instruction NO conversion
Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta
December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education ITiCSE-WGR '98**
Publisher: ACM Press

Full text available: pdf(107.98 KB) Additional Information: full citation, references, citings, index terms

7 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

December 1998 **ACM SIGCSE Bulletin**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(2.29 MB) Additional Information: full citation, abstract, citings, index terms

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

8 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(2.23 MB) Additional Information: full citation, abstract, references, index terms

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

9 A database design for graphical models

Susi Dulli, Vitaliano Milanese

December 1990 **ACM SIGPLAN Notices**, Volume 25 Issue 12

Publisher: ACM Press

Full text available: pdf(419.52 KB) Additional Information: full citation, abstract, index terms

In this paper we present an engineering data management system, that is a database which is supposed to store and support the manipulation of data about solid geometry objects. Some technical aspects are particularly addressed, which are related to the modeling environment, system architecture and data manipulation language.

10 The UCLA Brain Research Institute data processing laboratory

T. Estrin

December 1987 **Proceedings of ACM conference on History of medical informatics**

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, index terms

The Brain Research Institute is an interdisciplinary research unit of the UCLA Medical School, supporting basic research in fields which contribute to an understanding of brain mechanisms and behavior. In 1960 the School of Medicine was relatively young, having graduated its first class in 1955. Among the early professors to affiliate with the new medical school was Dr. H. W. Magoun, whose own research interests were in the nervous system. Under his leadership, a formal proposal was prepare ...

11 Complex logarithmic mapping and the focus of expansion (abstract only)
Ramesh Jain
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Complex logarithmic mapping has been shown to be useful for the size, rotation, and projection invariance of objects in a visual field for an observer translating in the direction of its gaze. Assuming known translational motion of the observer, the ego-motion polar transform was successfully used in segmentation of dynamic scenes. By combining the two transforms one can exploit features of both transforms and remove some of the limitations which restrict the applicability of both. In this paper ...

12 Tracking three dimensional moving light displays (abstract only)
Michael Jenkin
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

A method is presented for tracking the three-dimensional motion of points from their changing two-dimensional perspective images as viewed by a nonconvergent binocular vision system. The algorithm relies on a general smoothness assumption to guide the tracking process, and application of the tracking algorithm to a three-dimensional moving light display based on Cutting's Walker program as well as other domains are discussed.Evidence is presented relating the tracking algorithm to certain belief ...

13 Adapting optical-flow to measure object motion in reflectance and x-ray image sequences (abstract only)
Nancy Cornelius, Takeo Kanade
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

This paper adapts Horn and Schunck's work on optical flow to the problem of determining arbitrary motions of objects from 2-dimensional image sequences. The method allows for gradual changes in the way an object appears in the image sequence, and allows for flow discontinuities at object boundaries. We find velocity fields that give estimates of the velocities of objects in the image plane. These velocities are computed from a series of images using information about the spatial and temporal bri ...

14 Determining motion parameters for scenes with translation and rotation (abstract only)
Charles Jerian, Ramesh Jain
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

A study of methods that determine the rotation parameters of a camera moving through synthetic and real scenes is conducted. Algorithms that combine ideas of Jain and Prazdny are developed to find translational and rotational parameters. An argument is made for using hypothesized motion parameters rather than relaxation labelling to find correspondence.

15
Determining 3-D motion parameters of a rigid body: a vector-geometrical approach

(abstract only)
B. L. Yen, T. S. Huang
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

A vector-geometrical approach is given for the determination of 3-D motion parameters of a rigid body from point correspondences over 2 time sequential images. The resulting algorithms are similar to existing methods. However, the geometrical interpretations provide much valuable insight into the nature of the problem and the uniqueness question.

16 A hybrid approach to structure-from-motion (abstract only)
Aaron Bobick
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

A method is presented for computing structure from the motion of rigid objects which are rotating about a fixed axis. The input consists of two discrete frames containing the positions and instantaneous direction vectors of three points in orthographic projection. Because only the direction of the velocity vectors and not their magnitudes is needed, the method is insensitive to errors in velocity magnitude estimation. This type of computation could be important in recovering the 3-dimensional st ...

17 Determining the instantaneous axis of translation from optic flow generated by arbitrary sensor motion (abstract only)
J. H. Rieger, D. T. Lawton
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

This paper develops a simple and robust procedure for determining the instantaneous axis of translation from image sequences induced by unconstrained sensor motion. The procedure is based upon the fact that difference vectors at discontinuities in optic flow fields generated by sensor motion relative to a stationary environment are oriented along translational field lines. This is developed into a procedure consisting of three steps: 1) locally computing difference vectors from an optic flow fie ...

18 Real and apparent motion: one mechanism or two? (abstract only)
Marc Green, Michael von Grunau
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Two direction selective adaptation experiments were conducted to investigate whether real and apparent motion are processed by a single visual mechanism. Previous studies with real motion have shown that adaptation to a grating drifting in one direction has an effect on perceived motion of subsequently viewed test gratings (the velocity aftereffect) and also selectively raises contrast threshold (direction-specific threshold elevation). We conducted analogous experiments in which observers adapt ...

19 Selective attention to aspects of motion configurations: common vs. relative motion (abstract only)
James R. Pomerantz, Nelson Toth
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

The motion of a dot configuration may be described as the sum of its relative (part) and common (whole) motion components. Is either of these two component dimensions extracted before the other in human perception? Reaction time data from selective attention experiments show that neither dimension can be responded to without interference from the other, implying that neither is processed more quickly than or ahead of the other. Following Garner's nomenclature, common and relative motions appear ...

20 The perception of coherent motion in two-dimensional patterns (abstract only)
Edward H. Adelson, J. Anthony Movshon
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

When one looks at a two-dimensional scene of moving objects, one can usually assign a velocity to each point in that scene with little effort. This suggests that some early visual processes are able to generate a two-dimensional velocity map using fast parallel computations. But it is not obvious how this should be done, and we are currently trying to understand how the human visual system does it.

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Terms used: **graphical modeling component reference conversion graphical programming**

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Relevance scale

21 Coherent global motion percepts from stochastic local motions (abstract only)
D. W. Williams, R. Sekuler
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

A percept of global, coherent motion results when many different localized motion vectors are combined. We studied the percept with dynamic random dot kinematograms in which each element took an independent, random walk of constant step size. Directions of displacement from frame to frame were chosen from a uniform distribution. The tendency to see coherent, global flow along the mean of the uniform distribution varied with the range of the distribution.Psychometric functions were obtained with ...

22 Perception of rotation in depth: the psychophysical evidence (abstract only)
Myron L. Braunstein
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

There are a variety of ways in which motion in the environment can provide information about three-dimensional relationships. One transformation that has received increasing attention in both the visual perception literature and in the machine vision literature is rotation in depth. This transformation, which includes any rigid rotation other than a rotation about the line of sight, can provide both a strong impression of depth and specific information about three-dimensional relationships in a ...

23 Knowledge-based animation (abstract only)
David Zeltzer
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

In constructing a goal-directed system for automatic motion synthesis for computer animation, the essential problem is to account for the extraordinary flexibility and adaptability exhibited by moving creatures. The selective *potentiation* and *depotentiation* of elements of a hierarchy of motor control programs is a key to the generation of

adaptive motor control. The constraints on motion sequences are analyzed, and mechanisms for achieving continuity of movements are discussed. The ...

24 Computing the velocity field along contours (abstract only)
Ellen C. Hildreth
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

In this paper, we present a computational study of the measurement of motion. Similar to other visual processes, the motion of elements is not determined uniquely by information in the changing image; additional constraint is required to compute a unique velocity field. Given this global ambiguity of motion, local measurements from the changing image cannot possibly specify a unique local velocity vector, and in fact, may only specify one component of velocity. Computation of the full two-dimens ...

25 3D balance in legged locomotion: modeling and simulation for the one-legged case (abstract only)
Seshashayee S. Murthy, Marc H. Raibert
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

This paper explores the notion that the motion of dynamically stable 3D legged systems can be decomposed into a planar part that accounts for large leg and body motions that provide locomotion, and an extra-planar part that accounts for subtle corrective motions that maintain planarity. The large planar motions raise and lower the legs to achieve stepping, and they propel the system forward. The extra-planar motions ensure that the legged system remains in the plane. A solution of this form is s ...

26 Representing and reasoning about change (abstract only)
Reid G. Simmons, Randall Davis
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

A recent trend in artificial intelligence research is the construction of expert systems capable of reasoning from a detailed model of the objects in their domain and the processes that affect those objects. We describe a system being built in this fashion, designed to solve a class of problems known as geologic interpretation: given a cross-section of the Earth's crust (showing formations, faults, intrusions, etc.), hypothesize a sequence of geologic events whose occurrence could have formed th ...

27 On the estimation of dense displacement vector fields from image sequences (abstract only)
H. H. Nagel
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
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Based on recent experimental as well as theoretical investigations, a generalization of previously published approaches towards the estimation of displacement vector fields is formulated. The calculus of variation allows to transform this approach into a set of two partial differential equations for the two components of the displacement vector field. Some simplifying assumptions facilitate the derivation of an iterative solution approach which can be studied in closed form.

28 Multicomputer architectures for real-time perception (abstract only)
Leonard Uhr
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

This paper examines the computing demands that must be met by a system capable of scene description and perception of real-world moving objects. A brief survey is made of the major different kinds of computer systems that have been built, or designed, and of the different sources of potential speed-up of processing that have been exploited. Finally, a number of alternative possible hardware architectures that might be capable of handling real-time perception of moving objects are suggested, and ...

29 A multiple track animator system for motion synchronization (abstract only)
D. Fortin, J. F. Lamy, D. Thalmann
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

MUTAN (MUltiple Track ANimator) is an interactive system for independently animating three-dimensional graphical objects. MUTAN can synchronize different motions; it is also a good tool for synchronizing motion with sound, music, light or smell. To indicate moments in time, marks are associated with appropriate frame numbers. MUTAN enables the marks to be manipulated. An animator can also adjust one motion without modifying the others. To make this possible, MUTAN handles several tracks at a tim ...

30 Motion analysis of grammatical processes in a visual-gestural language (abstract only)
Howard Poizner, Edward S. Klima, Ursula Bellugi, Robert B. Livingston
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Movement of the hands and arms through space is an essential element both in the lexical structure of American Sign Language (ASL), and, most strikingly, in the grammatical structure of ASL: it is in patterned changes of the movement of signs that many grammatical attributes are represented. These grammatical attributes occur as an isolable superimposed layer of structure, as demonstrated by the accurate identification by deaf signers of these attributes presented only as dynamic point-light dis ...

31 The cross-ratio and the perception of motion and structure (abstract only)
William A. Simpson
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Followers of J. J. Gibson have proposed that the cross-ratio, a projective invariant for four collinear points, underlies the perception of objects in motion. Experiment 1 tested this theory by presenting subjects with displays of 3 or 4 dots rotating in depth. Accuracy was equally high in both conditions for motion and structure judgements, so the cross-ratio cannot be necessary. Experiments 2 and 3 tested the cue of lining up, and some evidence for its use was found. The results are consistent ...

32 Perceiving and recovering structure from events (abstract only)
James E. Cutting

January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

How do perceivers identify a moving object as seen against a changing background? How do figure and ground separate? Such questions have engaged psychologists for at least seventy years. In particular, the Gestalt psychologists were deeply concerned with the latter, but had only the illdefined notion of *common fate*, or uniform density, for dealing with the former. The coherent flow of a moving object is seen, somehow, by extracting those aspects of the whole that segregate it from the gro ...

33 "Graphical marionette" (abstract only)
Carol M. Ginsberg, Delle Maxwell
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1
Publisher: ACM Press
Full text available: pdf(3.92 MB) Additional Information: full citation, abstract

Many person-modelling 3-D animation systems are currently being developed, but often suffer from confusing and elaborate user interfaces. Given over 200 degrees of freedom, the human form is capable of such intricate motion that its specification and display presents considerable difficulty to both animators and animation systems designers. Given such difficulties with single figures, the orchestration of several in parallel remains a major challenge. In pursuit of understanding thoroughly this ...

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1 Toolkits: The MaggLite post-WIMP toolkit: draw it, connect it and run it

Stéphane Huot, Cédric Dumas, Pierre Dragicevic, Jean-Daniel Fekete, Gérard Hégron

October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology UIST '04**

Publisher: ACM Press

Full text available: pdf(10.39 MB)

Additional Information: full citation, abstract, references, citings, index terms

This article presents MaggLite, a toolkit and sketch-based interface builder allowing fast and interactive design of post-WIMP user interfaces. MaggLite improves design of advanced UIs thanks to its novel <i>mixed-graph</i> architecture that dynamically combines scene-graphs with interaction-graphs. <i>Scene-graphs</i> provide mechanisms to describe and produce rich graphical effects, whereas <i>interaction-graphs</i> allow expressive and fine-grained description of ad ...

Keywords: GUI architectures, GUI toolkits, ICON, MaggLite, interaction design, interaction techniques

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